

**Polynuclear Aromatic Hydrocarbon  
Sample Data Summary Package Cover Sheet**

**Client:** FOSTER WHEELER  
**Project:** ROXANNA MARSH  
**SDG:** 920866A

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## Case Narrative

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Client FOSTER WHEELER  
Project Name ROXANNA MARSH  
Project Number 1980.0208.0100  
SDG 920866A  
Fraction BNA

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Lab Number	Sample ID	Collect Date	Rec Date	Matrix
920839-024	FW-RM-01-CS-1-2	3/19/2002	3/21/2002	SOIL
920839-025	FW-RM-01-CS-2-3.9	3/19/2002	3/21/2002	SOIL
920866-001	FW-RM-11-SS	3/20/2002	3/22/2002	SOIL
920866-002	FW-RM-03-CS-2.3-4.8	3/19/2002	3/22/2002	SOIL
920866-003	FW-RM-03-CS-2.3-4.8MS	3/19/2002	3/22/2002	SOIL
920866-004	FW-RM-03-CS-2.3-4.8MSD	3/20/2002	3/22/2002	SOIL
920866-005	FW-RM-03-CS-0.8-2.3	3/20/2002	3/22/2002	SOIL
920866-006	FW-RM-20-SS	3/20/2002	3/22/2002	SOIL
920866-007	FW-RM-14-SS	3/20/2002	3/22/2002	SOIL
920866-008	FW-RM-21-SS	3/20/2002	3/22/2002	SOIL
920866-009	FW-RM-19-SS	3/20/2002	3/22/2002	SOIL
920866-010	FW-RM-18-SS	3/20/2002	3/22/2002	SOIL
920866-011	FW-RM-13-SS	3/20/2002	3/22/2002	SOIL
920866-012	FW-RM-RB-02	3/20/2002	3/22/2002	WATER
920866-015	FW-RM-07-CS-2.6-5.4	3/19/2002	3/22/2002	SOIL
920866-016	FW-RM-07-CS-0.5-2.6	3/19/2002	3/22/2002	SOIL
920866-017	FW-RM-20-CS-0.8-2.4	3/20/2002	3/22/2002	SOIL
920866-019	FW-RM-21-CS-3.6-5.6	3/21/2002	3/22/2002	SOIL
920866-020	FW-RM-01-CS-3.6-5.6	3/21/2002	3/22/2002	SOIL
920866-021	FW-RM-21-CS-7.0-9.0	3/21/2002	3/22/2002	SOIL
920866-022	FW-RM-01-CS-7.0-9.0	3/21/2002	3/22/2002	SOIL
920866-064	MB1920866			SOIL
920866-065	MB1920866LCS			SOIL
920866-067	MB2920866			WATER
920866-068	MB2920866LCS			WATER
920866-069	MB2920866LCSD			WATER

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**EN CHEM, INC**  
**CASE NARRATIVE - PAHs by GC/MS**

**Lab Report Number (SDG):** 920866A

**Client:** FOSTER WHEELER

**Project Name:** ROXANNA MARSH

**Project Number:** 1980.0208.0100

**1. RECEIPT**

The samples were received on ice.

**2. HOLDING TIMES**

**G. Sample Preparation:** All method holding times were met.

**H. Sample Analysis:** All method holding times were met.

**3. METHOD**

**Preparation:** SW-846 3550B, SW846 3510

**Analysis:** SW-846 8270C

**4. PREPARATION**

Sample preparation proceeded normally.

**5. ANALYSIS**

**A. Calibration:**

1. **GC/MS Tune:** All method acceptance criteria were met.

2. **Initial verification:** The method acceptance criteria were met for all CCC and SPCC compounds.

3. **Continuing verification:** The method acceptance criteria were met for all CCC and SPCC compounds.

**B. Blanks:**

1. **Method:** All in-house acceptance criteria were met

**C. Surrogates:** All surrogate recoveries met the in-house acceptance criteria. The laboratory Standard Operating Procedure (SOP) allows for one acid and/or one base neutral surrogate to fall outside of the acceptance criteria without requiring corrective action. Due to the level of dilution at which samples FW-RM-20-SS, FW-RM-14-SS, FW-RM-19-SS and FW-RM-19-SSDL were analyzed, the recovery criteria is not applicable.

**D. Spikes:**

1. **Lab Control Spike/Laboratory Control Spike Duplicate (LCS/LCSD):** The laboratory control spike (MB1920866LCS) associated to the soil samples met all in-house accuracy criteria. The laboratory control spike (MB2920866LCS) associated to the water sample met all in-house accuracy criteria. The laboratory control spike duplicate (MB2920866LCSD) did not meet the in-house accuracy criteria for Anthracene. All associated sample results for this analyte were reported with an "&" data qualifier without further corrective action as the laboratory standard operating procedure (SOP) allows for a limited number of analytes to fall outside the acceptance criteria based on the number of spiked analytes. The MB2920839LCSD met all other accuracy and all precision criteria.
2. **Matrix Spike / Matrix Spike Duplicate (MS/MSD):** Sample FW-RM-03-CS-2.3-4.8 was designated as the matrix spike sample for this SDG. Recoveries of Naphthalene, Acenaphthylene and Acenaphthene did not meet the in-house accuracy criteria. The parent and spike sample results for these analytes were reported with an "N" data qualifier. All other accuracy and all precision criteria were met.

**E. Internal Standards:** All in-house acceptance criteria were met.

**F. Samples:** Sample analyses proceeded normally.

**G. Dilutions:** All soil samples were analyzed at dilutions due to matrix interferences which caused low internal standard recoveries in the undiluted analyses. Sample results were reported to the laboratory method detection limit (MDL) to provide the lowest reporting limit possible for the non detected analytes. The level of Pyrene detected for sample FW-RM-19-SS analyzed at a 1:20 dilution exceeded the calibration range of the instrument. The sample was analyzed a second time at a 1:60 dilution and the Pyrene result was reported from this second analysis with a "D" data qualifier.

**H. Reanalysis:** None reported for this SDG.

**I. Comments:** None.

I certify that this data package is in compliance with the terms and conditions agreed to by **En Chem, Inc.** and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

Signed: Lynn M Dieffenbach Date: 4/22/02  
Name: Lynn M Dieffenbach Position: Project Manager

**Organic Data Qualifiers**

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate results outside control criteria or not available due to sample dilution.
- H(n) Extraction or analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- \* Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Denver  
 Project Contact: Pam Mess  
 Telephone: 303-980-3519  
 Project Number: 1980.0208.0100  
 Project Name: Roxanna Marsh  
 Project State: Indiana  
 Sampled By (Print): Jeanie Huber

**Data Package Options**  
 (please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	Matrix Codes	COLLECTION		MATRIX
				DATE	TIME	
920835-021	FW-01-17-CS-0-15	UST	W-Water	3-19	11:35	S
022	FW-01-18-CS-0-15	RCRA	S-Soil	3-19	12:00	W
023	FW-01-19-CS-1-2	SDWA	A-Air	3-19	11:35	S
024	FW-01-20-CS-1-2	NPDES	C-Charcoal	3-19	13:35	S
025	FW-01-21-CS-2-3.9	CERCLA	B-Biofilm	3-19	15:35	S
026	FW-01-22-CS-3.9-4.5	NRNY	St-Silicigo	3-19	13:35	S

**Rush Turnaround Time Requested (TAT) - Prelim**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #:  
 Fax #:  
 E-Mail Address:



# CHAIN OF CUSTODY

A=None B=HCL C=H2SO4  
 H= Sodium Bisulfate Solution  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE):

\*Preservation Codes  
 D-HH03 E-EnCore  
 F-Methanol G-HaOH

78315

ANALYSES REQUESTED	DATE	TIME	MATRIX	REGULATORY PROGRAM	FIELD ID
Asbestos	3/19	11:35	S	UST	FW-01-17-CS-0-15
Lead	3/19	12:00	W	RCRA	FW-01-18-CS-0-15
Cadmium	3/19	11:35	S	SDWA	FW-01-19-CS-1-2
Chromium	3/19	13:35	S	NPDES	FW-01-20-CS-1-2
Mercury	3/19	15:35	S	CERCLA	FW-01-21-CS-2-3.9
Silica	3/19	13:35	S	NRNY	FW-01-22-CS-3.9-4.5

En Chem Project No. 920839  
 Sample Receipt Temp. 3°C  
 Sample Receipt pH KOT  
 Cooler Custody Seal Present / Not Present  
 Impact / Not Intact Impact / Not Intact

LABORATORY ID	FIELD ID	Regulatory Program	Matrix Codes	DATE	TIME	MATRIX
920835-021	FW-01-17-CS-0-15	UST	W-Water	3-19	11:35	S
022	FW-01-18-CS-0-15	RCRA	S-Soil	3-19	12:00	W
023	FW-01-19-CS-1-2	SDWA	A-Air	3-19	11:35	S
024	FW-01-20-CS-1-2	NPDES	C-Charcoal	3-19	13:35	S
025	FW-01-21-CS-2-3.9	CERCLA	B-Biofilm	3-19	15:35	S
026	FW-01-22-CS-3.9-4.5	NRNY	St-Silicigo	3-19	13:35	S

Received By: FedEx Date/Time: 3-20-02 8:30  
 Received By: Chow Date/Time: 3/21/02 10:15  
 Received By: Chow Date/Time: 3/21/02 10:15

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX: 920-469-8927

925 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0902

Page 1 of 1  
 R.O. #        Quote #         
 Mail Report To: Pam Mess  
 Company: FWENC  
 Address: Denver  
 Invoice To: Gary Brown  
 Company: FWENC  
 Address: Bethel

En Chem Project No. 920839  
 Sample Receipt Temp. 3°C  
 Sample Receipt pH KOT  
 Cooler Custody Seal Present / Not Present  
 Impact / Not Intact Impact / Not Intact

Batch No. 920839

# En Chem, Inc. Cooler Receipt Log

Project Name or ID Roxanna Marsh

No. of Coolers: 3 Temps: 3, 2, 3°C

A. Receipt Phase: Date cooler was opened: 3/21/02 By: RJC

- 1: Were samples received on ice? (Must be ≤ 6 C).....  YES NO<sup>2</sup>
- 2: Was there a Temperature Blank?.....  YES NO
- 3: Were custody seals present and intact? (Record on COC).....  YES NO
- 4: Are COC documents present?.....  YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES  NO
- 6: Is there any sub-work?.....  YES NO
- 7: Are there any short hold time tests?.....  YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 3/21/02 By: RJC

- 1: Were all sample containers listed on the COC received and intact?.....  YES  NO<sup>3</sup> NA
- 2: Sign the COC as received by En Chem. Completed.....  YES NO
- 3: Do sample labels match the COC?.....  YES NO<sup>2</sup>
- 4: Check sample pH of preserved samples. (Not VOCs) Completed.....  YES NO NA
- 5: Do samples have correct chemical preservation?.....  YES NO<sup>2</sup> NA
- 6: Are dissolved parameters field filtered?..... YES NO<sup>2</sup>  NA
- 7: Are sample volumes adequate for tests requested?.....  YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm..... YES NO<sup>2</sup>  NA
- 9: Enter samples into logbook. Completed.....  YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....  YES NO NA
- 12: Start Nonconformance form.....  YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES  NO NA
- 14: Check laboratory sample number on all containers and COC.....  YES NO NA

Short Hold-time tests:

48 Hours or less	7 days	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Coliform (6 hrs)	Flashpoint	
Hexavalent Chromium (24 Hrs)	TSS	
BOD	Total Solids	
Nitrite or Nitrate	TDS	
Low Level Mercury	Sulfide	
Ortho Phosphorus	Free Liquids	
Turbidity	Total Volatile Solids	
Surfactants	<u>Aqueous Extractable Organics- ALL</u>	
Sulfite	Unpreserved VOC's	
En Core Preservation	Ash	
Color		

Reviewed by/date DIA 3/25

(Please Print Legibly)

Company Name: Foster Laboratories  
 Branch or Location: Deleville  
 Project Contact: 4888 Fay Moss  
 Telephone: 303-980-3519  
 Project Number: 1980, 0208, 0100  
 Project Name: Lexington Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldman

**Data Package Options**  
 (please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
12086-001	FW-EM-11-SS	3-20-02	09:17	S
002	FW-EM-03-SS-2348	3-19	15:20	
003	FW-EM-03-SS-0.8-2.3	3-19	15:20	
006	FW-EM-20-SS	3-20	11:03	
007	FW-EM-14-SS	3-20	09:55	
008	FW-EM-21-SS	3-20	11:30	
009	FW-EM-19-SS	3-20	10:58	
010	FW-EM-18-SS	3-20	10:15	
011	FW-EM-13-SS	3-20	11:30	
012				
013				
014				

**Regulatory Program**  
 LIST  
 RCRA  
 SDWA  
 NPDES  
 CERCLA

**Matrix Codes**  
 W=Water  
 S=Soil  
 A=Air  
 C=Charcoal  
 B=Biota  
 SL=Sludge

# CHAIN OF CUSTODY

78316

Preservation Codes  
 A=None B-HCl C-H2SO4 D-HNO3 E-EnCore F-Methanol G-NaOH  
 H=Ascorbic Acid I=Olib  
 FILTERED? (YES/NO)

PRESERVATION (CODE)\*

ANALYSES REQUESTED  
 H A  
 G  
 TACH/MS-SEM  
 19H / OR  
 19H / OR  
 19H / OR

Company: FAY MOSS  
 Address: 1473 Glenview Blvd  
 Suite 1000 Lakewood, CO 80223  
 Invoice To: Gary Bruch  
 Company: FAY MOSS  
 Address: 1200 NE 195th St  
 Bethel, WA 98011  
 Mail Invoice To:

LABORATORY ID	FIELD ID	DATE	TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
12086-001	FW-EM-11-SS	3-20-02	09:17	S		
002	FW-EM-03-SS-2348	3-19	15:20			
003	FW-EM-03-SS-0.8-2.3	3-19	15:20			
006	FW-EM-20-SS	3-20	11:03			
007	FW-EM-14-SS	3-20	09:55			
008	FW-EM-21-SS	3-20	11:30			
009	FW-EM-19-SS	3-20	10:58			
010	FW-EM-18-SS	3-20	10:15			
011	FW-EM-13-SS	3-20	11:30			
012						
013						
014						

TOTAL # OF BOTTLES SENT

CLIENT COMMENTS

LAB COMMENTS  
(Lab Use Only)

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_

Relinquished By: [Signature]  
 Date/Time: 3-21-02 / 12:08  
 Relinquished By: Fed Ex  
 Date/Time: 3/22/02 1030  
 Relinquished By: [Signature]  
 Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received By: [Signature]  
 Date/Time: 3/22/02 1030  
 Received By: [Signature]  
 Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

En Chem Project No. 920866  
 Sample Receipt Temp. 32.33, 14.3 ROT  
 Sample Receipt PH (Weighing) OK  
 Cooler Custody Seal Present Not Present  
 Intact Not Intact

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-489-2438  
 FAX 920-489-9927

EN CHEM INC.

525 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0502

Page 1 of 1

P.O. # Quote #

Mail Report To: Fay Moss

Company: FAY MOSS

Address: 1473 Glenview Blvd  
 Suite 1000 Lakewood, CO 80223

Invoice To: Gary Bruch

Company: FAY MOSS

Address: 1200 NE 195th St  
 Bethel, WA 98011

Mail Invoice To:





1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
920-469-2496  
FAX 920-469-8827

525 Science Drive  
Madison, WI 53711  
608-252-3300  
FAX: 608-253-0802

# CHAIN OF CUSTODY

78324

Page 2 of 2

Preservation Codes:  
A=None B=HCl C=H2SO4 D=HNO3 E=Encore  
H= Sodium Bisulfate Solution J= Other  
F=Methanol G=HeOH

FILTERED? (YES/NO)  
PRESERVATION (CODE)

RO. # \_\_\_\_\_ Quote # \_\_\_\_\_  
Mall Report To: Fester Wheeler  
Company: Fester Wheeler  
Address: Lakeview, CO  
Invoice To: Gary Simon  
Company: FWE/RC  
Address: Bothell, WA

(Please Print Legibly)  
Company Name: Fester Wheeler  
Branch or Location: Denver  
Project Contact: Pam Mass  
Telephone: 303-980-3519  
Project Number: 1980.0203.0100  
Project Name: Exams Marsh  
Project State: Indiana  
Sampled By (Print): Bob Feldpausch

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
920866-013	FW-LM-03-CS-4-8-28	3-19	15:20	S
014	FW-LM-07-CS-5-4-20	3-19	15:40	S
015	FW-LM-07-CS-26-5-4	3-19	15:40	S
016	FW-LM-07-CS-26-2-6	3-19	15:40	S
017	FW-LM-20-CS-08-2-4	3-20	17:30	S
018	FW-LM-10-CS-4-05-2	3-20	15:00	S

ANALYSES REQUESTED  
PCB / OC / PAH / OTC / G-SCM  
PCRA / PCB / PAH / OTC / G-SCM

LAB COMMENTS (Lab Use Only)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
	4 Archive	
	4 Archive	
	4	
	4	
	4 Archive	
	4	

Rush Turnaround Time Requested (TAT) - Prelim  
(Rush TAT subject to approval/surcharge)

Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (circle):  
Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-Mail \_\_\_\_\_

Relinquished By: Bob Feldpausch Date/Time: 3-21-02 12:15  
Relinquished By: Fed Ex Date/Time: 3/22/02 10:30  
Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

En Chem Project No. 920866  
Sample Receipt Temp. 32.33 / 43.60  
(Wet/Wet) OK  
Cooler Custody Seal Present / Not Present  
Intact / Not Intact Intact

Samples on HOLD are subject to special pricing and release of liability

(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Dallas  
 Project Contact: Pam Noss  
 Telephone: 303-980-3519  
 Project Number: 1980.0208.000  
 Project Name: Roxanna Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldman

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	COLLECTION		Matrix Codes
			DATE	TIME	
92086-019	FW-011-21-CS-3.6-5.6	UST RCRA SDWA NPDES CERCLA	3-21	1402	S
020	FW-011-01-CS-3.6-5.6		3-21	1402	S
021	FW-011-04-CS-7.0-9.0		3-21	1402	S
022	FW-011-01-CS-7.0-9.0		3-21	1402	S

ANALYSES REQUESTED  
 REG. TEST ONLY (Lab Use Only)  
 TOTAL # OF BOTTLES SENT

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
	4
	4
	4
	4

# EN CHEM INC.

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-8627

## CHAIN OF CUSTODY

78325

Preservation Codes  
 A=None B-HCL C-H2SO4 D-HNO3 E-EnCore  
 H = Sodium Bisulfate Solution F-Methanol G-NaOH  
 I=Other  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE)

Page 1 of 1  
 P.O. # Quote #  
 Mail Report To: Pam Noss  
 Company: EWENC  
 Address: Lakeview, CO  
 Invoice To: Gary Brewer  
 Company: EWENC  
 Address: Bohler, WI

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #:  
 Fax #:  
 E-Mail Address:

Relinquished By: [Signature] Date/Time: 3-21-02 16:55  
 Relinquished By: Fed Ex Date/Time: 3-22-02 10:30  
 Relinquished By: Fed Ex Date/Time: 3-22-02 10:30  
 Relinquished By: [Signature] Date/Time: 3-22-02 16:55

Received By: Fed Ex Date/Time: 3-22-02 10:30  
 Received By: Ryk Chouva Date/Time: 3-22-02 10:30  
 Received By: [Signature] Date/Time: 3-22-02 10:30  
 Received By: [Signature] Date/Time: 3-22-02 10:30

En Chem Project No. 92086  
 Sample Receipt Temp. 32.33, 14.3, 8.0  
 Sample Receipt pH OK  
 Cooler Custody Sent OK  
 Present / Not Present Intact  
 Intact / Not Intact Intact

(Please Print Legibly)

Company Name: Foster Wheeler

Branch or Location: Peoria

Project Contact: Pam Bloss

Telephone: 303-950-3519

Project Number: 1950-0208-0100

Project Name: Lexington Mills

Project State: Indiana

Sampled By (Print): Gary Stewart

**Data Package Options**

(please circle if requested)

Results Only

EnChem Level III (Subject to Surcharge)

EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
920866-0234	FW-0261-10-CS-17-910	3-20	15:05	S
-026	FW-0261-10-CS-07-1.7	3-20	15:03	S
027	FW-0261-13-CS-60-8.7	3-20	14:37	S
028	FW-0261-13-CS-31-6.0	3-20	14:34	S
029	FW-0261-13-CS-10-3.3	3-20	14:34	S
030	FW-0261-20-CS-27-4.2	3-20	17:30	S
031	FW-0261-20-CS-60-9.3	3-20	17:30	S
032	FW-0261-20-CS-42-6.0	3-20	17:10	S

Regulatory Program	Matrix Codes
UST	W-Water
RCRA	S-Soil
SDWA	A-Air
NPDES	C-Charcoal
GENGLA	B-Biota
	SI-Sludge

# EN CHEM INC.

1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
920-469-2436  
FAX 920-469-9827

525 Science Drive  
Madison, WI 53711  
608-232-3300  
FAX: 608-233-0502

## CHAIN OF CUSTODY

78326

F-Methanol G-HaOH  
D-HNO3 E-EndCore  
L-Other

\*Preservation Codes  
A=None B-HCl C-H2SO4  
H = Sodium Bisulfate Solution

ANALYSES REQUESTED  
D-GA W-LB TCC / MS-SEM  
D-GA W-LB TCC / MS-SEM  
D-GA W-LB TCC / MS-SEM

PRESERVATION (CODE)

TOTAL # OF BOTTLES SENT

LABORATORY COMMENTS

LABORATORY ID	FIELD ID	DATE	TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
920866-0234	FW-0261-10-CS-17-910	3-20	15:05	S	7 Include Lab. QCC	
-026	FW-0261-10-CS-07-1.7	3-20	15:03	S	4 Archive	
027	FW-0261-13-CS-60-8.7	3-20	14:37	S	4 Archive	
028	FW-0261-13-CS-31-6.0	3-20	14:34	S	4 Archive	
029	FW-0261-13-CS-10-3.3	3-20	14:34	S	4	
030	FW-0261-20-CS-27-4.2	3-20	17:30	S	4	
031	FW-0261-20-CS-60-9.3	3-20	17:30	S	4	
032	FW-0261-20-CS-42-6.0	3-20	17:10	S	4	

ANALYSES REQUESTED

PRESERVATION (CODE)

LABORATORY COMMENTS

TOTAL # OF BOTTLES SENT

LABORATORY COMMENTS

LABORATORY ID	FIELD ID	DATE	TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
920866-0234	FW-0261-10-CS-17-910	3-20	15:05	S	7 Include Lab. QCC	
-026	FW-0261-10-CS-07-1.7	3-20	15:03	S	4 Archive	
027	FW-0261-13-CS-60-8.7	3-20	14:37	S	4 Archive	
028	FW-0261-13-CS-31-6.0	3-20	14:34	S	4 Archive	
029	FW-0261-13-CS-10-3.3	3-20	14:34	S	4	
030	FW-0261-20-CS-27-4.2	3-20	17:30	S	4	
031	FW-0261-20-CS-60-9.3	3-20	17:30	S	4	
032	FW-0261-20-CS-42-6.0	3-20	17:10	S	4	

LABORATORY COMMENTS

PRESERVATION (CODE)

LABORATORY COMMENTS

TOTAL # OF BOTTLES SENT

LABORATORY COMMENTS

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030	FW-0261-20-CS-27-4.2	3-20	17:30	S	4	
031	FW-0261-20-CS-60-9.3	3-20	17:30	S	4	
032	FW-0261-20-CS-42-6.0	3-20	17:10	S	4	

LABORATORY COMMENTS

PRESERVATION (CODE)

LABORATORY COMMENTS

TOTAL # OF BOTTLES SENT

LABORATORY COMMENTS

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029	FW-0261-13-CS-10-3.3	3-20	14:34	S	4	
030	FW-0261-20-CS-27-4.2	3-20	17:30	S	4	
031	FW-0261-20-CS-60-9.3	3-20	17:30	S	4	
032	FW-0261-20-CS-42-6.0	3-20	17:10	S	4	

LABORATORY COMMENTS

PRESERVATION (CODE)

LABORATORY COMMENTS

TOTAL # OF BOTTLES SENT

LABORATORY COMMENTS

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027	FW-0261-13-CS-60-8.7	3-20	14:37	S	4 Archive	
028	FW-0261-13-CS-31-6.0	3-20	14:34	S	4 Archive	
029	FW-0261-13-CS-10-3.3	3-20	14:34	S	4	
030	FW-0261-20-CS-27-4.2	3-20	17:30	S	4	
031	FW-0261-20-CS-60-9.3	3-20	17:30	S	4	
032	FW-0261-20-CS-42-6.0	3-20	17:10	S	4	

LABORATORY COMMENTS

PRESERVATION (CODE)

LABORATORY COMMENTS

Rush Turnaround Time Requested (TAT) - Prelim  
(Rush TAT subject to approval/surcharge)

Date Needed:

Transmit Prelim Rush Results by (circle):  
Phone Fax E-Mail

Phone #:  
Fax #:  
E-Mail Address:

Samples on HOLD are subject to special pricing and release of liability

Received By: FedEx Date/Time: 3-21-02 12:20

Received By: Ryan Chouhan Date/Time: 3/22/02 1030

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

En Chem Project No. 920866

Sample Receipt Temp. 3233143 KJ

Sample Receipt # OK

Cooler Custody Sent OK

Present Not Present

Intact Not Intact

Page 1 of 1

Quote #

Mail Report To: F.W.E.N.C.

Company: F.W.E.N.C.

Address: Lakeview CO

Invoice To: Gregy Bessan

Company: F.W.E.N.C.

Address: Southall, WI

(Please Print Legibly)  
 Company Name: Foster Wheeler  
 Branch or Location: Dixon  
 Project Contact: Sam Mass  
 Telephone: 303-480-3519  
 Project Number: 1980-0208-0100  
 Project Name: Lexington Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldman sch

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-8927

825 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0502

# EN CHEM INC.

## CHAIN OF CUSTODY

78314  
 Page 1 of 2  
 P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Sam Mass  
 Company: F.W.E.N.C.  
 Address: \_\_\_\_\_  
 Invoice To: Lakeview CO  
 Company: GLADY BROWN  
 Address: \_\_\_\_\_  
 Mail Invoice To: Battell, WA

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
A-Air  
C-Charcoal  
B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
920866-033	FW-LM-15-C5-46-70	3-20	08:30	S
034	FW-LM-15-C5-30-46	3-20	08:30	S
035	FW-LM-15-C5-12-30	3-20	08:30	S
036	FW-LM-12-C5-53-8-15	3-20	08:10	S
037	FW-LM-12-C5-23-5-3	3-20	08:10	S
038	FW-LM-12-C5-11-19	3-20	08:10	S
039	FW-LM-04-C5-48-69	3-19	13:10	S
040	FW-LM-04-C5-77-48	3-19	13:10	S
041	FW-LM-04-C5-05-27	3-19	13:10	S
042	FW-LM-05-C5-33-59	3-20	13:10	S
043	FW-LM-05-C5-07-33	3-20	13:10	S
044	FW-LM-05-C5-59-84	3-20	13:10	S

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
A-Air  
C-Charcoal  
B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
		DATE	TIME			
920866-033	FW-LM-15-C5-46-70	3-20	08:30	S	4	Archive
034	FW-LM-15-C5-30-46	3-20	08:30	S	4	Archive
035	FW-LM-15-C5-12-30	3-20	08:30	S	4	Archive
036	FW-LM-12-C5-53-8-15	3-20	08:10	S	4	Archive
037	FW-LM-12-C5-23-5-3	3-20	08:10	S	4	Archive
038	FW-LM-12-C5-11-19	3-20	08:10	S	4	Archive
039	FW-LM-04-C5-48-69	3-19	13:10	S	4	Archive
040	FW-LM-04-C5-77-48	3-19	13:10	S	4	Archive
041	FW-LM-04-C5-05-27	3-19	13:10	S	4	Archive
042	FW-LM-05-C5-33-59	3-20	13:10	S	4	Archive
043	FW-LM-05-C5-07-33	3-20	13:10	S	4	Archive
044	FW-LM-05-C5-59-84	3-20	13:10	S	4	Archive

EnChem Project No. 920866  
 Sample Receipt Temp. 3333143 ROI  
 Sample Receipt pH OK  
 Cooler Custody Sent Present  
 Intact/Not Intact Intact

Received By: FedEx Date/Time: 3/21/01 12:36  
 Received By: Ryc Chevron Date/Time: 3/22/02 1030  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
A-Air  
C-Charcoal  
B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
A-Air  
C-Charcoal  
B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
A-Air  
C-Charcoal  
B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
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EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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C-Charcoal  
B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
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EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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EnChem Level III (Subject to Surcharge)  
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Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
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EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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EnChem Level III (Subject to Surcharge)  
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RCRA  
SDWA  
NPDES  
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EnChem Level III (Subject to Surcharge)  
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RCRA  
SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
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EnChem Level III (Subject to Surcharge)  
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RCRA  
SDWA  
NPDES  
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RCRA  
SDWA  
NPDES  
CERCLA  
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RCRA  
SDWA  
NPDES  
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EnChem Level III (Subject to Surcharge)  
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RCRA  
SDWA  
NPDES  
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RCRA  
SDWA  
NPDES  
CERCLA  
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RCRA  
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CERCLA  
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B-Bioa  
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NPDES  
CERCLA  
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C-Charcoal  
B-Bioa  
Sl-Sludge

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NPDES  
CERCLA  
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A-Air  
C-Charcoal  
B-Bioa  
Sl-Sludge

EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: UST  
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EnChem Level III (Subject to Surcharge)  
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SDWA  
NPDES  
CERCLA  
 Matrix Codes: W-Water  
S-Soil  
A-Air  
C-Charcoal  
B-Bioa  
Sl-Sludge





(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Deerov  
 Project Contact: Pam Moss  
 Telephone: 303-980-3519  
 Project Number: 1980.0208.0100  
 Project Name: Roxanna Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpausch

**Data Package Options**  
 (please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	REGULATORY PROGRAM		MATRIX
		DATE	TIME	
920866-056	Fw-RM-06-CS-07-21	3-21	12:20	S
057	Fw-RM-06-CS-28-4-7	3-21	12:20	S
058	Fw-RM-11-CS-07-24	3-21	10:18	S
059	Fw-RM-11-CS-28-4-2	3-21	10:18	S
060	Fw-RM-11-CS-42-6-7	3-21	10:18	S
061	Fw-RM-14-CS-07-20	3-21	09:58	S
062	Fw-RM-14-CS-20-3-8	3-21	09:58	S
063	Fw-RM-14-CS-38-5-6	3-21	09:58	S

**Rush Turnaround Time Requested (TAT) - Prelim**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (circle):  
 Phone #:  
 Fax #:  
 E-Mail Address:  
 Samples on HOLD are subject to special pricing and release of liability

# EN CHEM INC.

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2438  
 FAX 920-469-8927

825 Science Drive  
 Madison, WI 53711  
 608-232-3500  
 FAX: 608-233-0802

## CHAIN OF CUSTODY

78319

\*Preservation Codes  
 D-HNO3 E-Encure G-NaOH  
 L-Other  
 A=None B-HCL C-H2SO4  
 H = Sodium Bisulfate Solution  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE)\*

ANALYSES REQUESTED  
 (List in box)  
 YES - SM / 2 / MS / 10 / 6  
 TOTAL # OF BOTTLES SENT

Page 1 of 1  
 P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Parentless  
 Company: FWENC  
 Address: Lakeview CO  
 Invoice To: Gary Brisby  
 Company: FWENC  
 Address: Bethel, WI  
 Mail Invoice To: \_\_\_\_\_

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
4	
4	
4	
4	
4	Archive
4	
4	Archive

Received By: FedEx Date/Time: 5-21-02 17:00  
 Received By: By - Chover Date/Time: 3/22/02 10:30  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

En Chem Project No: 920866  
 Sample Receipt Temp: 33.33H3  
 Sample Receipt pH: RO1  
 Cooler Custody Seal: OK  
 Intact / Not Present: Intact

Batch No. 920866

### En Chem, Inc. Cooler Receipt Log

Project Name or ID Roxanna Marsh

No. of Coolers: 7 Temps: 3, 2, 3, 3, 1, 4, 3 °C

A. Receipt Phase: Date cooler was opened: 3/22/02 By: RJC

- 1: Were samples received on ice? (Must be ≤ 6 C).....  YES NO<sup>2</sup>
- 2: Was there a Temperature Blank?.....  YES NO
- 3: Were custody seals present and intact? (Record on COC).....  YES NO
- 4: Are COC documents present?.....  YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES  NO
- 6: Is there any sub-work?.....  YES NO
- 7: Are there any short hold time tests?.....  YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 3/22/02 By: RJC

- 1: Were all sample containers listed on the COC received and intact?..... YES  NO<sup>2</sup> *broken lids - see NC RJC*
- 2: Sign the COC as received by En Chem. Completed.....  YES NO
- 3: Do sample labels match the COC?.....  YES NO<sup>2</sup>
- 4: Check sample pH of preserved samples. (Not VOCs) Completed.....  YES NO NA
- 5: Do samples have correct chemical preservation?.....  YES NO<sup>2</sup> NA
- 6: Are dissolved parameters field filtered?..... YES NO<sup>2</sup>  NA
- 7: Are sample volumes adequate for tests requested?.....  YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm..... YES NO<sup>2</sup>  NA
- 9: Enter samples into logbook. Completed.....  YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....  YES NO NA
- 12: Start Nonconformance form.....  YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES  NO NA
- 14: Check laboratory sample number on all containers and COC.....  YES NO NA

**Short Hold-time tests:**

48 Hours or less	7 days	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Coliform (6 hrs)	Flashpoint	
Hexavalent Chromium (24 Hrs)	TSS	
BOD	Total Solids	
Nitrite or Nitrate	TDS	
Low Level Mercury	Sulfide	
Ortho Phosphorus	Free Liquids	
Turbidity	Total Volatile Solids	
Surfactants	<u>Aqueous Extractable Organics- ALL</u>	
Sulfite	Unpreserved VOC's	
En Core Preservation	Ash	
Color		

Reviewed by/date MAJ/as

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-01-CS-1-2

Collection Date : 3/19/02

Lab Sample Number : 920839-024

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

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### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/28/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	70000	1700	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	3800	1500	ug/kg		4/5/02	SW846 8270C
Anthracene	44000	1100	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	42000	1600	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	17000	1200	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	20000	2100	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	8700	2300	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	6200	3200	ug/kg		4/5/02	SW846 8270C
Chrysene	47000	2400	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	3900	1600	ug/kg		4/5/02	SW846 8270C
Fluoranthene	51000	1700	ug/kg		4/5/02	SW846 8270C
Fluorene	33000	1900	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	11000	3800	ug/kg		4/5/02	SW846 8270C
Naphthalene	3300	1800	ug/kg		4/5/02	SW846 8270C
Phenanthrene	140000	2000	ug/kg		4/5/02	SW846 8270C
Pyrene	91000	2200	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-01-CS-2-3.9

Collection Date : 3/19/02

Lab Sample Number : 920839-025

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/28/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 310	310	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 280	280	ug/kg		4/5/02	SW846 8270C
Anthracene	< 200	200	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	< 280	280	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	< 220	220	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	< 380	380	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	< 420	420	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 580	580	ug/kg		4/5/02	SW846 8270C
Chrysene	< 430	430	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 300	300	ug/kg		4/5/02	SW846 8270C
Fluoranthene	< 310	310	ug/kg		4/5/02	SW846 8270C
Fluorene	< 340	340	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 690	690	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 320	320	ug/kg		4/5/02	SW846 8270C
Phenanthrene	940	360	ug/kg		4/5/02	SW846 8270C
Pyrene	470	410	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-11-SS

Collection Date : 3/20/02

Lab Sample Number : 920866-001

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 700	700	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 620	620	ug/kg		4/5/02	SW846 8270C
Anthracene	< 440	440	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	2400	620	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	2000	480	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	5500	850	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	3200	940	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 1300	1300	ug/kg		4/5/02	SW846 8270C
Chrysene	3500	950	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 660	660	ug/kg		4/5/02	SW846 8270C
Fluoranthene	2900	680	ug/kg		4/5/02	SW846 8270C
Fluorene	< 750	750	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	2400	1500	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 720	720	ug/kg		4/5/02	SW846 8270C
Phenanthrene	< 790	790	ug/kg		4/5/02	SW846 8270C
Pyrene	4600	900	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-03-CS-2.3-4.8

Collection Date : 3/19/02

Lab Sample Number : 920866-002

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 98	98	ug/kg	N	4/4/02	SW846 8270C
Acenaphthylene	< 87	87	ug/kg	N	4/4/02	SW846 8270C
Anthracene	< 61	61	ug/kg		4/4/02	SW846 8270C
Benzo(a)anthracene	< 87	87	ug/kg		4/4/02	SW846 8270C
Benzo(a)pyrene	< 67	67	ug/kg		4/4/02	SW846 8270C
Benzo(b)fluoranthene	< 120	120	ug/kg		4/4/02	SW846 8270C
Benzo(g,h,i)perylene	< 130	130	ug/kg		4/4/02	SW846 8270C
Benzo(k)fluoranthene	< 180	180	ug/kg		4/4/02	SW846 8270C
Chrysene	< 130	130	ug/kg		4/4/02	SW846 8270C
Dibenzo(a,h)anthracene	< 92	92	ug/kg		4/4/02	SW846 8270C
Fluoranthene	< 96	96	ug/kg		4/4/02	SW846 8270C
Fluorene	< 100	100	ug/kg		4/4/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 210	210	ug/kg		4/4/02	SW846 8270C
Naphthalene	< 100	100	ug/kg	N	4/4/02	SW846 8270C
Phenanthrene	< 110	110	ug/kg		4/4/02	SW846 8270C
Pyrene	< 130	130	ug/kg		4/4/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-03-CS-0.8-2.3

Collection Date : 3/20/02

Lab Sample Number : 920866-005

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 120	120	ug/kg		4/4/02	SW846 8270C
Acenaphthylene	< 100	100	ug/kg		4/4/02	SW846 8270C
Anthracene	< 74	74	ug/kg		4/4/02	SW846 8270C
Benzo(a)anthracene	< 100	100	ug/kg		4/4/02	SW846 8270C
Benzo(a)pyrene	< 80	80	ug/kg		4/4/02	SW846 8270C
Benzo(b)fluoranthene	< 140	140	ug/kg		4/4/02	SW846 8270C
Benzo(g,h,i)perylene	< 160	160	ug/kg		4/4/02	SW846 8270C
Benzo(k)fluoranthene	< 220	220	ug/kg		4/4/02	SW846 8270C
Chrysene	< 160	160	ug/kg		4/4/02	SW846 8270C
Dibenzo(a,h)anthracene	< 110	110	ug/kg		4/4/02	SW846 8270C
Fluoranthene	< 110	110	ug/kg		4/4/02	SW846 8270C
Fluorene	< 130	130	ug/kg		4/4/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 260	260	ug/kg		4/4/02	SW846 8270C
Naphthalene	< 120	120	ug/kg		4/4/02	SW846 8270C
Phenanthrene	< 130	130	ug/kg		4/4/02	SW846 8270C
Pyrene	< 150	150	ug/kg		4/4/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-20-SS

Collection Date : 3/20/02

Lab Sample Number : 920866-006

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	3100	2100	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	4200	1800	ug/kg		4/5/02	SW846 8270C
Anthracene	3400	1300	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	10000	1800	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	7900	1400	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	16000	2500	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	18000	2800	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 3800	3800	ug/kg		4/5/02	SW846 8270C
Chrysene	26000	2800	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	3400	1900	ug/kg		4/5/02	SW846 8270C
Fluoranthene	9500	2000	ug/kg		4/5/02	SW846 8270C
Fluorene	3100	2200	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	11000	4500	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 2100	2100	ug/kg		4/5/02	SW846 8270C
Phenanthrene	2600	2300	ug/kg		4/5/02	SW846 8270C
Pyrene	38000	2700	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-14-SS

Collection Date : 3/20/02

Lab Sample Number : 920866-007

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 3100	3100	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 2700	2700	ug/kg		4/5/02	SW846 8270C
Anthracene	< 1900	1900	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	6000	2700	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	7200	2100	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	22000	3700	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	9900	4100	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 5700	5700	ug/kg		4/5/02	SW846 8270C
Chrysene	12000	4200	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 2900	2900	ug/kg		4/5/02	SW846 8270C
Fluoranthene	9300	3000	ug/kg		4/5/02	SW846 8270C
Fluorene	< 3300	3300	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	7500	6700	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 3200	3200	ug/kg		4/5/02	SW846 8270C
Phenanthrene	< 3500	3500	ug/kg		4/5/02	SW846 8270C
Pyrene	13000	4000	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-21-SS

Collection Date : 3/20/02

Lab Sample Number : 920866-008

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1300	1300	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 1100	1100	ug/kg		4/5/02	SW846 8270C
Anthracene	< 810	810	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	2700	1100	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	2600	880	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	8400	1600	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	3200	1700	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 2400	2400	ug/kg		4/5/02	SW846 8270C
Chrysene	4800	1800	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1200	1200	ug/kg		4/5/02	SW846 8270C
Fluoranthene	3300	1300	ug/kg		4/5/02	SW846 8270C
Fluorene	< 1400	1400	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	2900	2800	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 1300	1300	ug/kg		4/5/02	SW846 8270C
Phenanthrene	< 1500	1500	ug/kg		4/5/02	SW846 8270C
Pyrene	5300	1700	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

# - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-19-SS

Collection Date : 3/20/02

Lab Sample Number : 920866-009

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

## Semivolatile Organic Results

### PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	4700	2400	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 2200	2200	ug/kg		4/5/02	SW846 8270C
Anthracene	18000	1500	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	130000	2200	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	49000	1700	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	84000	3000	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	67000	3300	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	10000	4500	ug/kg		4/5/02	SW846 8270C
Chrysene	310000	3300	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	21000	2300	ug/kg		4/5/02	SW846 8270C
Fluoranthene	77000	2400	ug/kg		4/5/02	SW846 8270C
Fluorene	21000	2600	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	34000	5300	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 2500	2500	ug/kg		4/5/02	SW846 8270C
Phenanthrene	6200	2800	ug/kg		4/5/02	SW846 8270C
Pyrene	390000	9400	ug/kg	D	4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-18-SS

Collection Date : 3/20/02

Lab Sample Number : 920866-010

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1500	1500	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	1400	1300	ug/kg		4/5/02	SW846 8270C
Anthracene	< 960	960	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	3800	1400	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	5600	1000	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	13000	1800	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	11000	2000	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 2800	2800	ug/kg		4/5/02	SW846 8270C
Chrysene	6400	2100	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1400	1400	ug/kg		4/5/02	SW846 8270C
Fluoranthene	4500	1500	ug/kg		4/5/02	SW846 8270C
Fluorene	< 1600	1600	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	11000	3300	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 1600	1600	ug/kg		4/5/02	SW846 8270C
Phenanthrene	< 1700	1700	ug/kg		4/5/02	SW846 8270C
Pyrene	7100	2000	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-13-SS

Collection Date : 3/20/02

Lab Sample Number : 920866-011

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1300	1300	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 1200	1200	ug/kg		4/5/02	SW846 8270C
Anthracene	< 830	830	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	3100	1200	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	2900	900	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	9200	1600	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	4600	1800	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 2400	2400	ug/kg		4/5/02	SW846 8270C
Chrysene	5400	1800	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1200	1200	ug/kg		4/5/02	SW846 8270C
Fluoranthene	3400	1300	ug/kg		4/5/02	SW846 8270C
Fluorene	< 1400	1400	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	4300	2900	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 1300	1300	ug/kg		4/5/02	SW846 8270C
Phenanthrene	< 1500	1500	ug/kg		4/5/02	SW846 8270C
Pyrene	5900	1700	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-RB-02

Collection Date : 3/20/02

Lab Sample Number : 920866-012

Matrix Type : WATER

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 3/26/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 2.2	2.2	ug/L		3/28/02	SW846 8270C
Acenaphthylene	< 1.8	1.8	ug/L		3/28/02	SW846 8270C
Anthracene	< 1.8	1.8	ug/L	&	3/28/02	SW846 8270C
Benzo(a)anthracene	< 2.3	2.3	ug/L		3/28/02	SW846 8270C
Benzo(a)pyrene	< 2.7	2.7	ug/L		3/28/02	SW846 8270C
Benzo(b)fluoranthene	< 2.9	2.9	ug/L		3/28/02	SW846 8270C
Benzo(g,h,i)perylene	< 3.4	3.4	ug/L		3/28/02	SW846 8270C
Benzo(k)fluoranthene	< 2.4	2.4	ug/L		3/28/02	SW846 8270C
Chrysene	< 2.2	2.2	ug/L		3/28/02	SW846 8270C
Dibenzo(a,h)anthracene	< 3.1	3.1	ug/L		3/28/02	SW846 8270C
Fluoranthene	< 2.1	2.1	ug/L		3/28/02	SW846 8270C
Fluorene	< 1.9	1.9	ug/L		3/28/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 3.4	3.4	ug/L		3/28/02	SW846 8270C
Naphthalene	< 2.6	2.6	ug/L		3/28/02	SW846 8270C
Phenanthrene	< 2.1	2.1	ug/L		3/28/02	SW846 8270C
Pyrene	< 2.4	2.4	ug/L		3/28/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-07-CS-2.6-5.4  
Lab Sample Number : 920866-015  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/22/02  
Collection Date : 3/19/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 110	110	ug/kg		4/4/02	SW846 8270C
Acenaphthylene	< 96	96	ug/kg		4/4/02	SW846 8270C
Anthracene	< 68	68	ug/kg		4/4/02	SW846 8270C
Benzo(a)anthracene	< 96	96	ug/kg		4/4/02	SW846 8270C
Benzo(a)pyrene	< 74	74	ug/kg		4/4/02	SW846 8270C
Benzo(b)fluoranthene	< 130	130	ug/kg		4/4/02	SW846 8270C
Benzo(g,h,i)perylene	< 140	140	ug/kg		4/4/02	SW846 8270C
Benzo(k)fluoranthene	< 200	200	ug/kg		4/4/02	SW846 8270C
Chrysene	< 150	150	ug/kg		4/4/02	SW846 8270C
Dibenzo(a,h)anthracene	< 100	100	ug/kg		4/4/02	SW846 8270C
Fluoranthene	< 110	110	ug/kg		4/4/02	SW846 8270C
Fluorene	< 120	120	ug/kg		4/4/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 240	240	ug/kg		4/4/02	SW846 8270C
Naphthalene	< 110	110	ug/kg		4/4/02	SW846 8270C
Phenanthrene	< 120	120	ug/kg		4/4/02	SW846 8270C
Pyrene	< 140	140	ug/kg		4/4/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-07-CS-0.5-2.6

Collection Date : 3/19/02

Lab Sample Number : 920866-016

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 160	160	ug/kg		4/4/02	SW846 8270C
Acenaphthylene	< 140	140	ug/kg		4/4/02	SW846 8270C
Anthracene	< 100	100	ug/kg		4/4/02	SW846 8270C
Benzo(a)anthracene	< 140	140	ug/kg		4/4/02	SW846 8270C
Benzo(a)pyrene	< 110	110	ug/kg		4/4/02	SW846 8270C
Benzo(b)fluoranthene	< 200	200	ug/kg		4/4/02	SW846 8270C
Benzo(g,h,i)perylene	< 220	220	ug/kg		4/4/02	SW846 8270C
Benzo(k)fluoranthene	< 300	300	ug/kg		4/4/02	SW846 8270C
Chrysene	< 220	220	ug/kg		4/4/02	SW846 8270C
Dibenzo(a,h)anthracene	< 150	150	ug/kg		4/4/02	SW846 8270C
Fluoranthene	< 160	160	ug/kg		4/4/02	SW846 8270C
Fluorene	< 170	170	ug/kg		4/4/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 350	350	ug/kg		4/4/02	SW846 8270C
Naphthalene	< 170	170	ug/kg		4/4/02	SW846 8270C
Phenanthrene	< 180	180	ug/kg		4/4/02	SW846 8270C
Pyrene	< 210	210	ug/kg		4/4/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-20-CS-0.8-2.4

Collection Date : 3/20/02

Lab Sample Number : 920866-017

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 200	200	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 180	180	ug/kg		4/5/02	SW846 8270C
Anthracene	< 120	120	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	500	180	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	420	140	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	1200	240	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	670	270	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 370	370	ug/kg		4/5/02	SW846 8270C
Chrysene	900	270	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 190	190	ug/kg		4/5/02	SW846 8270C
Fluoranthene	550	190	ug/kg		4/5/02	SW846 8270C
Fluorene	< 210	210	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 430	430	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 200	200	ug/kg		4/5/02	SW846 8270C
Phenanthrene	< 220	220	ug/kg		4/5/02	SW846 8270C
Pyrene	1300	260	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-21-CS-3.6-5.6

Collection Date : 3/21/02

Lab Sample Number : 920866-019

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 240	240	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 210	210	ug/kg		4/5/02	SW846 8270C
Anthracene	< 150	150	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	< 210	210	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	< 160	160	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	< 290	290	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	< 320	320	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 440	440	ug/kg		4/5/02	SW846 8270C
Chrysene	< 330	330	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 230	230	ug/kg		4/5/02	SW846 8270C
Fluoranthene	< 230	230	ug/kg		4/5/02	SW846 8270C
Fluorene	< 260	260	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 520	520	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 250	250	ug/kg		4/5/02	SW846 8270C
Phenanthrene	410	270	ug/kg		4/5/02	SW846 8270C
Pyrene	< 310	310	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-01-CS-3.6-5.6

Collection Date : 3/21/02

Lab Sample Number : 920866-020

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 340	340	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 300	300	ug/kg		4/5/02	SW846 8270C
Anthracene	< 210	210	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	< 300	300	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	< 230	230	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	< 410	410	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	< 450	450	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 620	620	ug/kg		4/5/02	SW846 8270C
Chrysene	< 460	460	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 320	320	ug/kg		4/5/02	SW846 8270C
Fluoranthene	< 330	330	ug/kg		4/5/02	SW846 8270C
Fluorene	< 360	360	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 740	740	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 350	350	ug/kg		4/5/02	SW846 8270C
Phenanthrene	680	380	ug/kg		4/5/02	SW846 8270C
Pyrene	< 430	430	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-21-CS-7.0-9.0  
Lab Sample Number : 920866-021  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/22/02  
Collection Date : 3/21/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 180	180	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 160	160	ug/kg		4/5/02	SW846 8270C
Anthracene	< 110	110	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	< 160	160	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	< 120	120	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	< 220	220	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	< 240	240	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 340	340	ug/kg		4/5/02	SW846 8270C
Chrysene	< 250	250	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 170	170	ug/kg		4/5/02	SW846 8270C
Fluoranthene	< 180	180	ug/kg		4/5/02	SW846 8270C
Fluorene	< 200	200	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 400	400	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 190	190	ug/kg		4/5/02	SW846 8270C
Phenanthrene	< 210	210	ug/kg		4/5/02	SW846 8270C
Pyrene	< 240	240	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-01-CS-7.0-9.0  
Lab Sample Number : 920866-022  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/22/02  
Collection Date : 3/21/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/29/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 190	190	ug/kg		4/5/02	SW846 8270C
Acenaphthylene	< 160	160	ug/kg		4/5/02	SW846 8270C
Anthracene	< 120	120	ug/kg		4/5/02	SW846 8270C
Benzo(a)anthracene	< 170	170	ug/kg		4/5/02	SW846 8270C
Benzo(a)pyrene	< 130	130	ug/kg		4/5/02	SW846 8270C
Benzo(b)fluoranthene	< 220	220	ug/kg		4/5/02	SW846 8270C
Benzo(g,h,i)perylene	< 250	250	ug/kg		4/5/02	SW846 8270C
Benzo(k)fluoranthene	< 340	340	ug/kg		4/5/02	SW846 8270C
Chrysene	< 250	250	ug/kg		4/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 170	170	ug/kg		4/5/02	SW846 8270C
Fluoranthene	< 180	180	ug/kg		4/5/02	SW846 8270C
Fluorene	< 200	200	ug/kg		4/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 400	400	ug/kg		4/5/02	SW846 8270C
Naphthalene	< 190	190	ug/kg		4/5/02	SW846 8270C
Phenanthrene	250	210	ug/kg		4/5/02	SW846 8270C
Pyrene	< 240	240	ug/kg		4/5/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.